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1 Query processing for high-volume XML message brokering

Yanlei Diao, Michael Franklin

September 2003   VLDB '2003: Proceedings of the 29th international conference on Very large data bases - Volume 29,   Volume 29

Publisher: VLDB Endowment

Full text available: Pdf (158.36 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 9,   Citation Count: 3

XML filtering solutions developed to date have focused on the matching of documents to large numbers of queries but have not addressed the customization of output needed for emerging distributed information infrastructures. Support for such customization ...

2 "Honey, i shrunk the types": how behavioral types loose relevance on the edges on OO applications and why a core data fabric is useful for adaptability

John Kuriakose
October   OOPSLA '05: Companion to the 20th annual ACM SIGPLAN conference on
2005   Object-oriented programming, systems, languages, and applications
Publisher: ACM

Full text available: Pdf (232.31 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 31, Citation Count: 0

OO Programs are built by first defining User Types within the language environment and then realizing program requirements by using the behavior defined by these Types.We argue against defining types to deal with every scenario.OO Programs within an ...

Keywords: core data representation, data driven programming, dynamic data model, enterprise data fabric, enterprise data repository, reflective data API

3 Event detection in sensor networks for modern oil fields

Matthew Hill, Murray Campbell, Yuan-Chi Chang, Vijay Iyengar
July   DEBS '08: Proceedings of the second international conference on Distributed
2008   event-based systems
Publisher: ACM

Full text available: Pdf (220.22 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 32, Citation Count: 0

We report the experience of implementing event detection analytics to monitor and forewarn oil production failures in modern, digitized oil fields. Modern oil fields are equipped with thousands of sensors and gauges to measure various physical and chemical ...

Keywords: digital oil field, event warning, gas, industry, near real time analytics, oil, petroleum, surveillance

4 AGILE: adaptive indexing for context-aware information filters

Jens-Peter Dittrich, Peter M. Fischer, Donald Kossmann
June   SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference
2005   on Management of data
Publisher: ACM

Full text available: Pdf (630.32 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 99,   Citation Count: 5

Information filtering has become a key technology for modern information systems. The goal of an information filter is to route messages to the right recipients (possibly none) according to declarative rules called profiles. In order to deal with high ...

5 The BEA streaming XQuery processor

Daniela Florescu, Chris Hillery, Donald Kossmann, Paul Lucas, Fabio Riccardi, Till Westmann, J. Carey, Arvind Sundararajan
September   The VLDB Journal — The International Journal on Very Large Data
2004   Bases,   Volume 13 Issue 3
Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (328.94 KB)   Additional Information: full citation, abstract, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 57,   Citation Count: 15

This paper describes the design, implementation, and performance characteristics of a commercial XQuery processing engine, the BEA streaming XQuery processor. This XQuery engine was designed to provide high performance for message-processing applications, ...

6 A socio-aware overlay for publish/subscribe communication in delay tolerant networks

Eiko Yoneki, Pan Hui, ShuYan Chan, Jon Crowcroft
October   MSWiM '07: Proceedings of the 10th ACM Symposium on Modeling,
2007   analysis, and simulation of wireless and mobile systems
Publisher: ACM

Full text available: Pdf (1.39 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16,   Downloads (12 Months): 222,   Citation Count: 0

The emergence of Delay Tolerant Networks (DTNs) has culminated in a new generation of wireless networking. We focus on a type of human-to-human communication in DTNs, where human behaviour exhibits the characteristics of networks by forming a community. ...

Keywords: connectivity modeling and analysis, delay tolerant networks, network measurement, pervasive computing, social networks

7 Toward Flexible Messaging for SOAP-Based Services

Geoffrey Fox, Shrideep Pallickara, Savas Parastatidis
November 2004   SC '04: Proceedings of the 2004 ACM/IEEE conference on Supercomputing
Publisher: IEEE Computer Society
Full text available: Pdf (247.58 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 126,   Citation Count: 0

NaradaBrokering provides a messaging abstraction that allows it to provide message-related capabilities in a transparent fashion. These capabilities include message-based security, time and causal ordering, compression, virtualization of transport protocol ...

Keywords: Performance, Design, Reliability, Distributed middleware, Grid computing, Web Services, service oriented architectures

8 Data routing rather than databases: the meaning of the next wave of the web revolution to data management

Adam Bosworth
August 2002   VLDB '02: Proceedings of the 28th international conference on Very Large Data Bases
Publisher: VLDB Endowment
Full text available: Pdf (11.44 KB)   Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 21,   Citation Count: 0

What is going to be as important in the next 20 years as relational databases were in the prior 20 years is the management of self-describing extensible messages. The net is undergoing a profound change as it moves from an entirely pull-oriented model ...

9 Service Oriented Database Architecture: APP server-lite?

David Campbell
June   SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference
2005   on Management of data
Publisher: ACM

Full text available: Pdf (505.57 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 172, Citation Count: 0

As the capabilities and service levels of enterprise database systems have evolved, they have collided with incumbent technologies such as TP-Monitors or Message Oriented Middleware (MOM). We believe this trend will continue and have architected the ...

10 Quality-constrained routing in publish/subscribe systems

Bogumil Zieba, Marten van Sinderen, Maarten Wegdam
November   MPAC '05: Proceedings of the 3rd international workshop on Middleware
2005   for pervasive and ad-hoc computing
Publisher: ACM

Full text available: Pdf (389.71 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 58, Citation Count: 0

Routing in publish/subscribe (pub/sub) features a communication model where messages are not given explicit destination addresses, but destinations are determined by matching the subscription declared by subscribers. For a dynamic computing environment ...

Keywords: content-based, publish/subscribe, quality-constraints, quality-of-service, routing

11 Data protection and data sharing in telematics

Sastry Duri, Jeffrey Elliott, Marco Gruteser, Xuan Liu, Paul Moskowitz, Ronald Perez, Moninder Singh, Jung-Mu Tang
December   Mobile Networks and Applications, Volume 9 Issue 6
2004
Publisher: Kluwer Academic Publishers

Full text available: Pdf (303.67 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 101, Citation Count: 1

Automotive telematics may be defined as the information-intensive applications enabled for vehicles by a combination of telecommunications and computing technology. Telematics by its nature requires the capture, storage, and exchange of sensor data to ...

Keywords: automotive telematics, data protection architecture, privacy policies

12 XML stream processing using tree-edit distance embeddings

Minos Garofalakis, Amit Kumar
March   ACM Transactions on Database Systems (TODS), Volume 30 Issue 1
2005
Publisher: ACM

Full text available: Pdf (726.56 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 175, Citation Count: 3

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution ...

Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

13 SLA-driven business process management in SOA

Vinod Muthusamy, Hans-Arno Jacobsen, Phil Coulthard, Allen Chan, Julie Waterhouse, Elena Litani
October   CASCON '07: Proceedings of the 2007 conference of the center for
2007   advanced studies on Collaborative research
Publisher: ACM

Full text available: Pdf (111.96 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 285, Citation Count: 0

In a Service-Oriented Architecture (SOA), distributed applications are built by orchestrating reusable services using high-level workflows or business processes. The complexity of developing and maintaining these processes is addressed by SOA development ...

14 Use of discrete event simulation to validate an agent based scheduling engine

Shubhabrata Biswas, Sara Merchawi
December   WSC '00: Proceedings of the 32nd conference on Winter simulation
2000
Publisher: Society for Computer Simulation International

Full text available: Pdf (211.92 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 14,   Citation Count: 0

This paper discusses the use of simulation in a new context. Most often QUEST is viewed as a stand-alone simulation tool to analyze and understand shop floor behavior. It has rarely been used in conjunction with other proprietary software. This paper ...

15 A generic solution for warehousing business process data

Fabio Casati, Malu Castellanos, Umeshwar Dayal, Norman Salazar
September   VLDB '07: Proceedings of the 33rd international conference on Very
2007   large data bases
Publisher: VLDB Endowment

Full text available: Pdf (302.75 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 172,   Citation Count: 1

Improving business processes is critical to any corporation. Process improvement requires *analysis* as its first basic step. Process analysis has many unique challenges: i) companies execute many business processes, and devising ad hoc solutions ...

16 Evaluation of spoken multimodal conversation

Niels Ole Bernsen, Laila Dybkjær
October   ICMI '04: Proceedings of the 6th international conference on Multimodal
2004   interfaces
Publisher: ACM

Full text available: Pdf (131.11 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 40,   Citation Count: 2

Spoken multimodal dialogue systems in which users address face-only or embodied interface agents have been gaining ground in research for some time. Although most systems are still strictly task-oriented, the field is now moving towards domain-oriented ...

Keywords: evaluation, natural interaction, spoken conversation

17 A framework for rapid integration of presentation components

Jin Yu, Boualem Benatallah, Regis Saint-Paul, Fabio Casati, Florian Daniel, Maristella Matera
May WWW '07: Proceedings of the 16th international conference on World Wide
2007 Web
Publisher: ACM

Full text available: Pdf (402.78 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 327, Citation Count: 1

The development of user interfaces (UIs) is one of the most time-consuming aspects in software development. In this context, the lack of proper reuse mechanisms for UIs is increasingly becoming manifest, especially as software development is more and ...

Keywords: XPIL, component model, presentation component, presentation composition, presentation integration, user interface (UI)

18 Migration to web services oriented architecture: a case study

Jia Zhang, Jen-Yao Chung, Carl K. Chang
March SAC '04: Proceedings of the 2004 ACM symposium on Applied computing
2004
Publisher: ACM

Full text available: Pdf (159.22 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 266, Citation Count: 1

The rapid emerging of web-services technology is dramatically changing the scenario of web application design and development. This paper presents a web-services oriented architecture. As a case study, the paper reports on an on-going project on the ...

Keywords: Web application development, case study, software architecture, web services oriented architecture

19 Time-critical information services

Thomas A. Horan, Benjamin L. Schooley
March 2007 Communications of the ACM, Volume 50 Issue 3
Publisher: ACM

Full text available: Html (32.36 KB), Pdf (148.93 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 331, Citation Count: 1

Emergency medical services have never been more ready for the implementation of time-critical interorganizational information services for the public good.

20 Focused iterative testing: a test automation case study

Mechelle Gittens, Pramod Gupta, David Godwin, Hebert Pereyra, Jeff Riihimaki
June   DBTest '08: Proceedings of the 1st international workshop on Testing
2008   database systems
Publisher: ACM

Full text available: Pdf (144.28   Additional Information: full citation, abstract, references, index terms
KB)

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 7,   Citation Count: 0

Timing-related defects are among the most difficult types of defects to catch while
testing software. They are by definition difficult to reproduce and hence difficult to
debug. Not all components of a software system have timing-related defects. For ...

Keywords: database management systems, multi-threaded, testing

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